

# BORR DRILLING – BORR IDUN



LOCATION: ANCHORAGE KEMAMAN  
PROJECT: BORR INSPECTION



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## WORKSCOPE

❖ Advantage Marine Services (AMS) was awarded to perform Borr Idun Inspection project at Anchorage Kemaman

1. Lifting gear inspection.
2. Drop survey & derrick bolt check.
3. Crane inspection.
4. PRV & gauge calibration.
5. UTTM LP & HP mud pump process.



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# WORKSCOPE

- ❖ Project Start Date: 18<sup>th</sup> Jan 2021
- ❖ Project Completion Date: 14<sup>th</sup> Mac 2021
- ❖ Total Manpower: 1 Qc Engineer, 2 man teams inspector for LGI, 2 man teams for Drop Survey, 2 man teams for Crane inspection, 2 man teams for PRV, 2 man teams for UTTM and 1x level III for overall work scope.





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# LIFTING GEAR INSPECTION

By its nature **Lifting Gear** is always susceptible to damage at any time during use. A thorough visual inspection should always be carried out by the user of the equipment prior to use. This should also be done after the equipment has been used, to ensure that no damage has been done during use.

LIFTING GEAR INSPECTION (LGI) WE ARE PROVIDING:

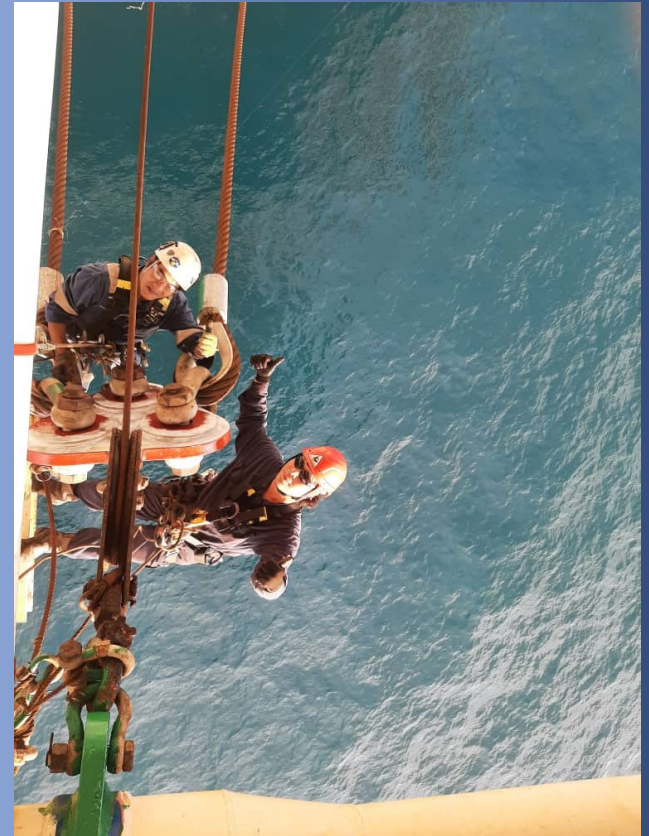
- i. VISUAL & NDT EXAMINATION
- ii. CERTIFICATE OF THOROUGH VISUAL EXAMINATION
- iii. NDT REPORT FOR FIXED & LOOSE ITEMS



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# LIFTING GEAR INSPECTION







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# DROP SURVEYS

**DROPS** object are hazardous and should be manage and controlled like any other hazards. Our personnel took note the possibility of dropped objects occurring and the identification of how they might occur. Once assessed, the potential dropped objects were risk assessed, giving consideration to its potential and its probability of occurrence. Where possible, it would be eliminated, removed from site immediately or relocated. If this was not possible, it would be substituted for a hazard free, or at least less hazardous alternative.



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# DROP SURVEY & DERRICK BOLT CHECK







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# CRANE INSPECTION

**Crane inspections** are designed to assess the safety of equipment, detect wear and tear and identify maintenance needs for safe, productive operation. Inspections can also verify that equipment complies with current local standards and regulations, helping to avoid costly fines and disruption of operations. Below method that is used to do crane inspections:

- i. MAGNETIC PARTICLE TESTING
- ii. EDDY CURRENT INSPECTION
- iii. VISUAL INSPECTION

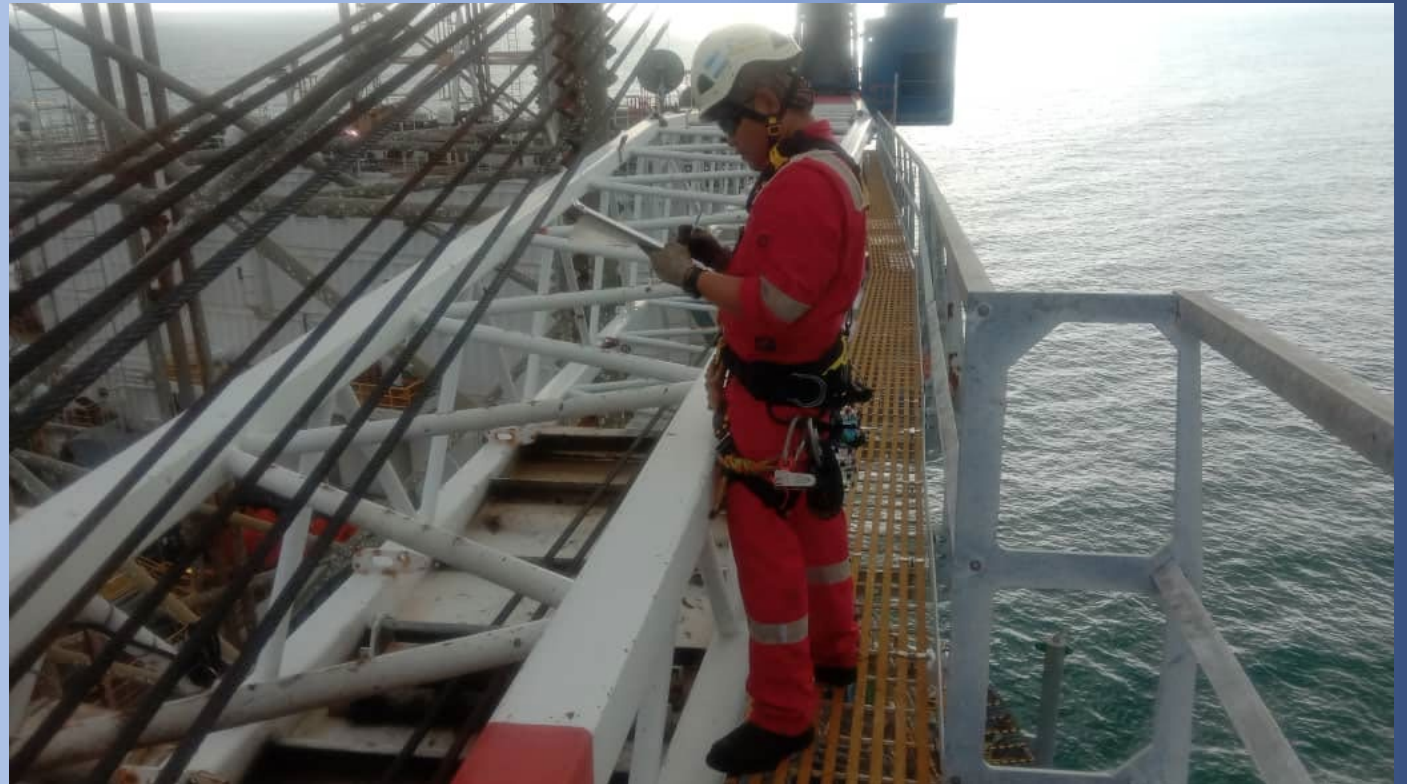




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# CRANE INSPECTION





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# PRV & GAUGE CALIBRATION

## **Pressure Relief valve Testing and Certification**

Using mobile workshop containers, testing and certification of pressure relief valves is carried out onsite with our master gauges, fittings and pressure generators.

## **Critical Gauge Testing and Certification**

Using mobile workshop containers, testing and certification of pressure gauge is carried out onsite with our master gauges, fittings and pressure generators.





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# PRV & GAUGE CALIBRATION





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# UTTM

In the field of industrial Ultrasonic Testing, **Ultrasonic Thickness Measurement (UTTM)** is frequently used to characterize material thickness, integrity, or other physical properties by means of high frequency sound waves. It is widely used for product testing and quality control of steel structures and components.

The **Ultrasonic Thickness Measurement** used the basic principles of ultrasound as they apply to thickness testing of materials and components. It concentrates on the compressional wave mode (sometimes referred to as longitudinal or “straight beam”) and provides a straight forward way to apply this technique for precise thickness measurements. There are several transducers used and their advantages are presented and demonstrated including straight beam, delay line, and dual element (“pitch-catch”). Variables such as surface conditions, coatings, configuration, couplant and material grain structure are all addressed, and a wide range of applications are included.





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# UTTM LP & HP MUD PUMP PROCESS



THANK YOU